

DRAWING SET

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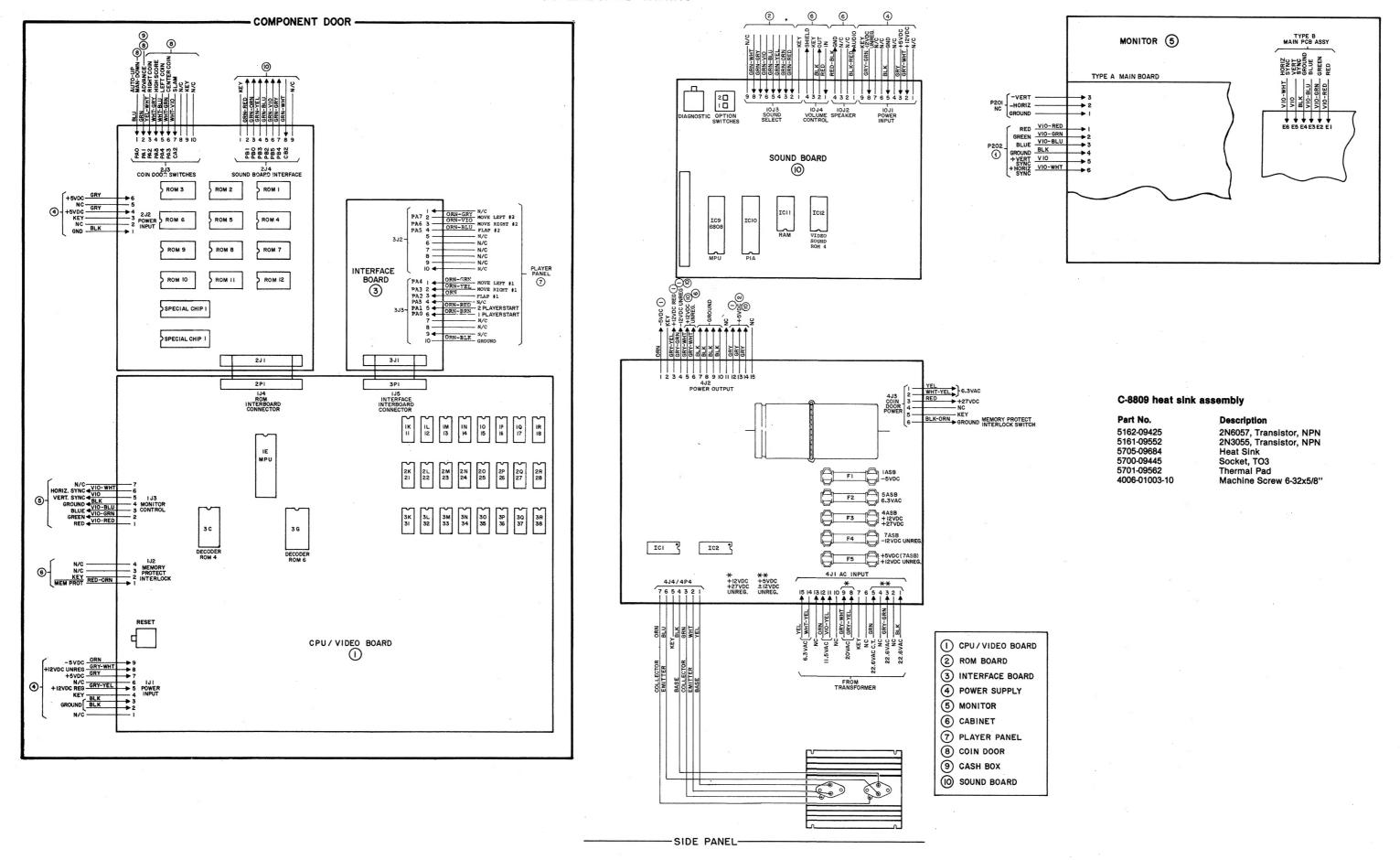


3401 N. California Ave. Chicago, IL 60618 Cable Address: WILCOIN, CHICAGO (312) 267-2240

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| DOLLY COUNT DOUGH CONCINCTION DIGHTING | - |

INTERBOARD WIRING



| NO. | PART NO. | PART . DESIGNATION | DESCRIPTION | REQ" |
|-----|---------------------------------------|-------------------------------------|---|------------|
| 74 | 5791- 09497 - 00 | 133 | 7 PIN HEADER 09-65-1071 | 1 |
| 75 | 5791- 09027-00 | 131 | 9 PIN HEADER 09-65-1091 | 1 |
| 76 | 5019- 09669-00 | SRI | RESISTOR, I K OHM | ١ |
| 77 | 5010 - 09534 - 00 | W1, W2, W3 | RESISTOR, C.F. | 3 |
| 78 | 5340- 09689-00 | 10 | SII4 IKX4 CMOS STATIC RAM | 1 |
| | 5340 - 09667 - 00 5281-09483-00 | | 16514 1KX4 CMOS STATIC RAM 74LS189 16X4 RAM | 0 |
| 79 | 5280-09625-00 | 1B, 2B | 7489 16 X4 RAM 745189 16 X4 RAM | 0 |
| | 5281-09715-00 | , | 7415289 16 X 4 RAM 745289 16 X 4 RAM | 2 |
| 80 | 09371-00 | 61111 | PUSH BUTTON SW. | ٥ |
| .00 | 5641- 09312-00 | SWI | PUSH BUTTON SW. | ١ |
| 81 | 16-8850-26 | | LABEL PCB ASSY I.D. | 1 |
| 82 | | | · | |
| 83 | 5019- 09786-00 | SR2 | SIP 4.7K Ω. 5R 6 PIN 5%125 W/R@70°C | 1 |
| 84 | 5281- 09856-00 | 1н, зн, 4н | OCTAL LATCH 74LS373 | 3 |
| 85 | | | | |
| 47 | 5010 - 09 <i>0</i> 35 - 00 | R64 | RESISTOR, C.F. 47KOHM 5% 1/4W. | 1 |
| 48 | 5551- 098 2 2 - 00 | 4 3 | COIL, 9.7.4H, 3A | , |
| 49 | 5010 - 09001 - 00 | R2, R21, R24 | RESISTOR, C.F. 330 OHM 5% 1/4 W. | 3 |
| 50 | 5010 - 09039 - 00 | R 56 | RESISTOR, C.F. | 1 : |
| 51 | 5043 - 09491 - 00 | C89, C93 | CAPACITOR, AXIAL 22 PFD. 1K V. ±10% | 2 |
| 52 | 5043- 09492-00 | C88, | CAPACITOR, AXIAL | t |
| 53 | 5040- 09 54 5-00 | C84 | CAPACITOR, AXIAL 22 MFD. 10 V. ± 20% | ı |
| 54 | 5043 - 09065 - 00 | C94 THRUC'97 | CAPACITOR, AXIAL | 4 |
| 55 | 5043- 08996-00 | SEE NOTE #3 | CAPACITOR, AXIAL | 8 5 |
| 56 | 5040- 09421-00 | C81, C82, C83 | CAPACITOR, RADIAL | 3 |
| 57 | 5075- 09059-00 | ZR2 | IN 5990 A 3.9 V. ZENER DIODE | ı |
| 58 | 5075- 09018-00 | . ZRI | IN599GA G.8 V. ZENER DIODE | ١ |
| 59 | 5070 - 08919-00 | DI, D2, D3, D4, D5, D6, D7, D8 | N4148 DIODE, SILICON | 8 |
| 60 | 5070 - 09266-00 | D9 | INSBIT DIODE, SILICON | ı |
| 61 | 5160- 08938-00 | Q5, Q6, Q7, Q8, P8 910, Q11, Q13 | 2N4401, TO-92 TRANSISTOR, NPN | 8 |
| 62 | 5190- | QI, Q2, Q3, Q4, Q12 | 2N4403, TO-92 TRANSISTOR, PNP | 5 |
| 63 | 5520- 09495-00 | CRI | 12 MHZ CRYSTAL | 1 |
| 64 | 5043- 09845-00 | C98-C105 | CAPICITOR, AXIAL | 8 |
| 65 | 5880- 09022-00 | BI, B2, B3 | BATTERY ALKALINE 1.5 V. (AA) | 3 |
| 66 | 5881- | | BATTERY HOLDER #171 | 1 |
| 67 | 5700- | | 14 - PIN IC SOCKET | 0 |
| 68 | 5700 - 09006 - 00 | | IG-PIN IC SOCKET | 24 |
| 69 | 5700- | _ | 24-PIN IC SOCKET | 2 |
| | 5700 - 08985-00 | | 40-PIN IC SOCKET | t |
| 70 | 5791- | | 20 PIN RIBBON | 1 |
| 71 | 09437-00 | 135 | CABLE HEADER | |
| _ | | 135 | 40 PIN RIBBON CABLE HEADER | 1 |

NOTES:

1. 4116: 1K, 1L, 1M, 1N, 10, 1P, 1Q, 1R, 2K, 2L, 2M, 2N, 20, 2P, 2Q, 2R, 3K, 3L, 3M, 3N, 30, 3P, 3Q, 3R

2. 4,7 K. A. RESISTOR:

R26, R27, R28, R29, R32, R33, R35,
R36, R37, R38, R39, R41, R43, R45,
R50, R51, R52, R66 R67 R68, R69,
R70, R71, R75, R34, R76, R77, R78

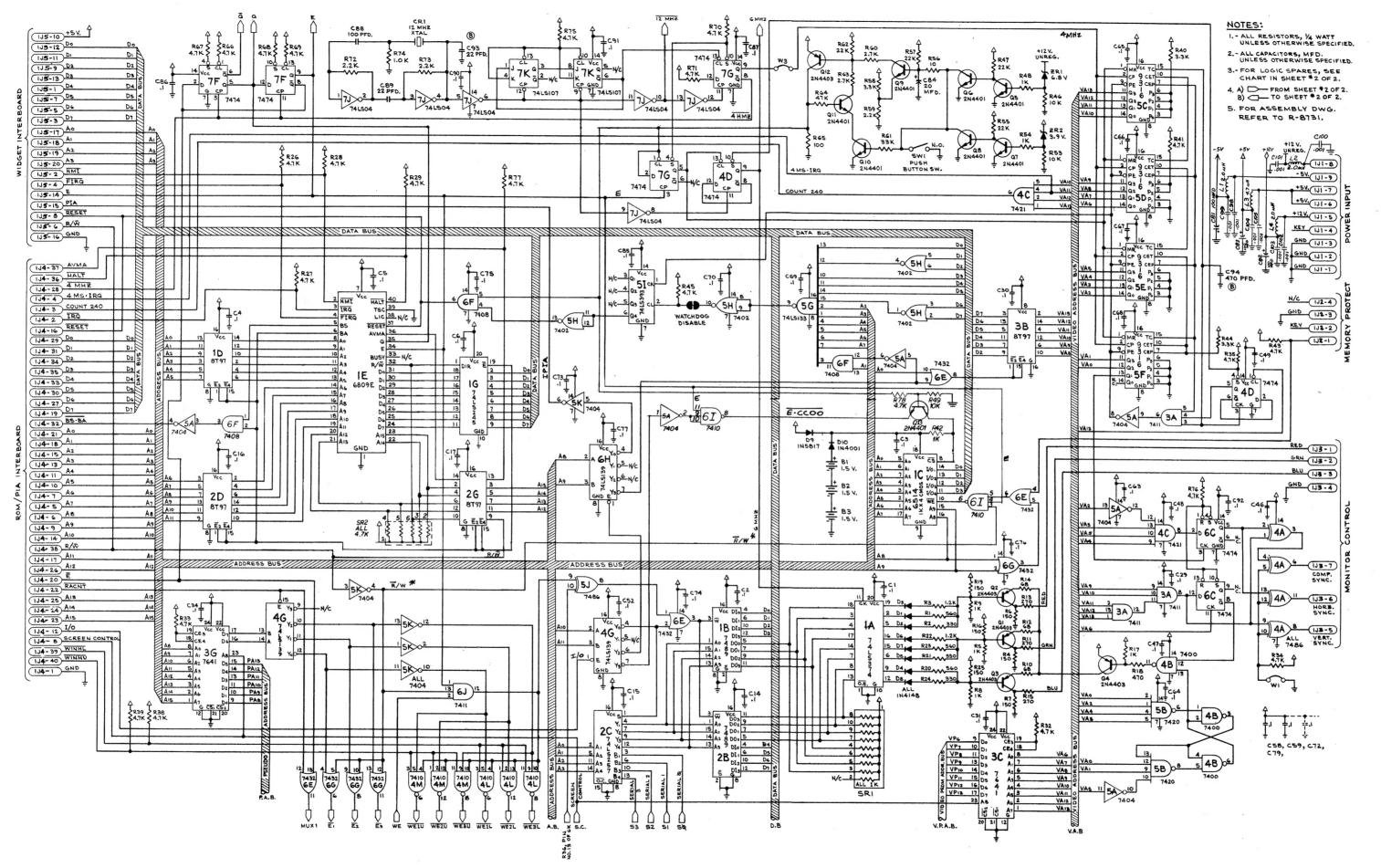
3. <u>ILMFD. CAPACITORS:</u>

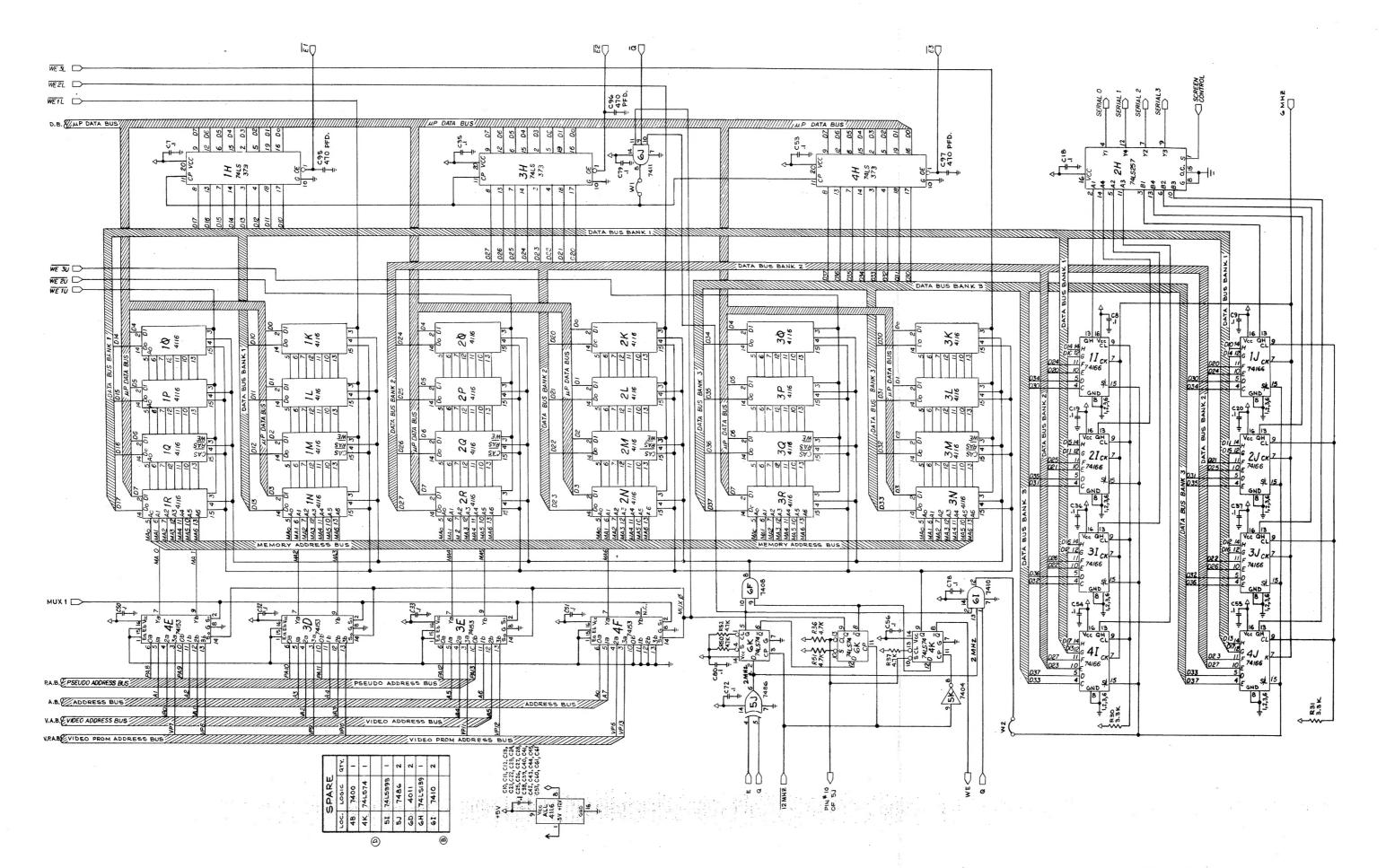
CI, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C10, C71, C12, C13, C74, C75, C16, C67, C69, C71, C12, C13, C74, C75, C16, C17, C18, C79, C80, C86, C81, C90, C91, C92

4. FOR SCHEMATIC REFER TO 16-8809

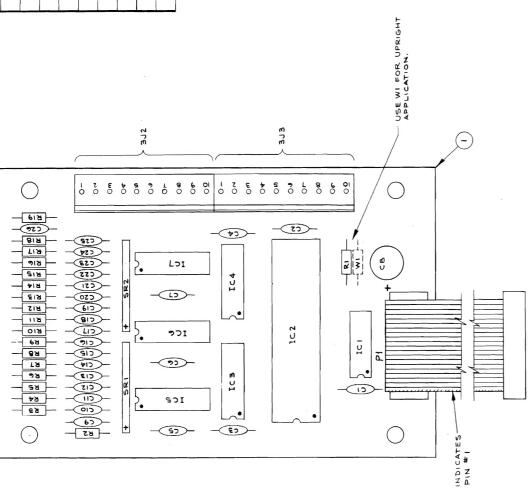
| | BILL OF MATERIAL | | | | | | | | |
|------|------------------------------------|--------------------------------------|--|--------------|--|--|--|--|--|
| NO. | PART NO. | PART DESIGNATION | DESCRIPTION | REG'D NO. | | | | | |
| l | 5770- 09656-00 | | BARE P.C. BOARD | 1 | | | | | |
| 2 | 5280- 09073-00 | 4B | 7400 QUAD 2-INPUT NAND | . 1 | | | | | |
| 3 | 5280- 08948-00 | 5H | 7402 QUAD 2-INPUT NOR | . 1 | | | | | |
| 4 | 5281- 09215-00 | 7,3 | 74LS04 HEX. INVERTER | 1 | | | | | |
| 5 | 5280- 09013-00 | 5A,5K | 7404 HEX. INVERTER | 2 | | | | | |
| 6 | 5280 - 08973 - 00 | 6F | 7408 QUAD AND | 1 | | | | | |
| 7 | 5280- | 4L, 4M, 6I | 7410 TRIPLE 3-INPLIT NAND | 3 | | | | | |
| 8 | 5280- 09475-00 | 3A, 6J | 7411 TRIPLE 3-INPUT AND | 2 | | | | | |
| 9 | 5280- 09530-00 | 5B | 7420 DUAL 4-INPUT NAND | 1 | | | | | |
| 10 | 5280- 09476-00 | 4C | 7421 DUAL 4-INPUT AND | 1 | | | | | |
| 11 | 5280- 09477-00 | · 6E,6G | 7432 QUAD 2-INPUT OR | 2 | | | | | |
| 12 | 5280 - 09478-00 | 4D, 4K, 6K 6C, 7F, 7G | 7474 DUAL - D TYPE FLIP - FLOP | 6 | | | | | |
| 13 | 5280 - 09479-00 | 4A, 5J | 7486 QUAD 2-INPUT EX-OR | 2 | | | | | |
| 14 | 5281- | 7K | 74LS107 DUAL J-K FLIP-FLOP | 1 | | | | | |
| 15 | 5281- | 5G | 74LS133 | ı | | | | | |
| 16 | 5281- 09246-00 | 4G, 6H | 74LS139 DUAL 2 to 4 LINE DECOLER | 2 | | | | | |
| 17 | 5280- | 3D, 3E, 4E, 4F | 74153 DUAL 4 to 1 DATA : NVERT | 4 | | | | | |
| 18 | 09481-00 5280- | 1I, 1J, 2I, 2J | 74166 | 8 | | | | | |
| 19 | 09668-00 | 31, 3J, 41, 4J | 8-BIT SHIFT REGISTER | | | | | | |
| 20 | 5281 | 16 | 74L5245 | ı | | | | | |
| 21 | 5281- | 2C, 2H | 74LS257 | 2 | | | | | |
| - | 09485-00 5370- | | ST97 HEX. TS BUFFER | - | | | | | |
| 22 | 5281- | 1D, 2D, 2G, 3B | 74LS367 | 4 | | | | | |
| 23 | 09385-00 5281- | 1A, | 74LS374 | | | | | | |
| 24 | 09486-00 A-5342- | 30 | OCTAL D.TYPE FLIP-FLOP UNIVERSAL VERT. | 1 | | | | | |
| | 09821 A-5342- | | DECODER ROMG | · 1 | | | | | |
| 25 | 0969 4 5551- 09898-00 | 3 G | UNIVERSAL HORZ. DECODER ROM 4 | | | | | | |
| 26 | 09848-00 | 41,42,44 | 74L5393 | 3 | | | | | |
| 27 | 09533-00 5340- | 51 | DUAL 4-BIT BIN. COUNTER | 1 | | | | | |
| 28 | 09488-00 | SEE NOTE #1 | IGK X I DYNAMIC RAM | 24 | | | | | |
| 29 | 06258-00 | DIO | 1N4001 DIODE | 1 | | | | | |
| 30 | 09489-00 | 5C, 5D, 5E, 5F | 4-BIT BIN. COUNTER | 4 | | | | | |
| 31 | 09490-00 | IE | MICROPROCESSOR | 1 | | | | | |
| 32 | 09548-00 | RIO, RI2, RI4 | RESISTOR, C.F. 68 OHM 2 % 1/4W. RESISTOR, C.F. | 3 | | | | | |
| 33 | 09036-00 | R65 R4, R6, R7, | RESISTOR. C.E. | 1 | | | | | |
| 34 | 09187-00 | RIG, RI9, R25 | RESISTOR, C.F. | 6 | | | | | |
| 35 | 5010- 09508-00 | R11, R13, R15 | RESISTOR, C.F. | 3 | | | | | |
| 36 | 09416-00 | R18 | 470 OHM 5% 14 W. | 1 | | | | | |
| 37 | 5010- 08992-00 | RI, R20, R23 | RESISTOR, C.F. 560 OHM 5% 1/4W. | 3 | | | | | |
| 38 | 5010- 09358-00 | R42, <i>R5,R9,R17</i> R48,R54,R74 | RESISTOR, C.F. | 8 | | | | | |
| 39 | 5010- 09314-00 5010- | RB, R22 | RESISTOR, C.F. | 2 | | | | | |
| 40 | 08998-00 | R59, R72, R73 | RESISTOR, C.F. 2.2 K OHM 5% 1/4 W. | 3 | | | | | |
| 41 | 5010- | R60, R63 | RESISTOR, C.F. 2.7 K OHM 5% /4W. | £ | | | | | |
| 42 | 5010- | R30, R31 R40, R44, R58 | RESISTOR, C.F. 3.3KOHM 5% 1/4W. | 5 | | | | | |
| 43 | 5010- | SEE NOTE *2 | RESISTOR, C.F. 4.7 K OHM 5% 1/4 W. | | | | | | |
| 44 . | 5010 - 09034 - 00 | R49, R46, R53 | RESISTOR, C.F. | 3 | | | | | |
| | 5010- | R47, R55, | RESISTOR, C.F. | | | | | | |

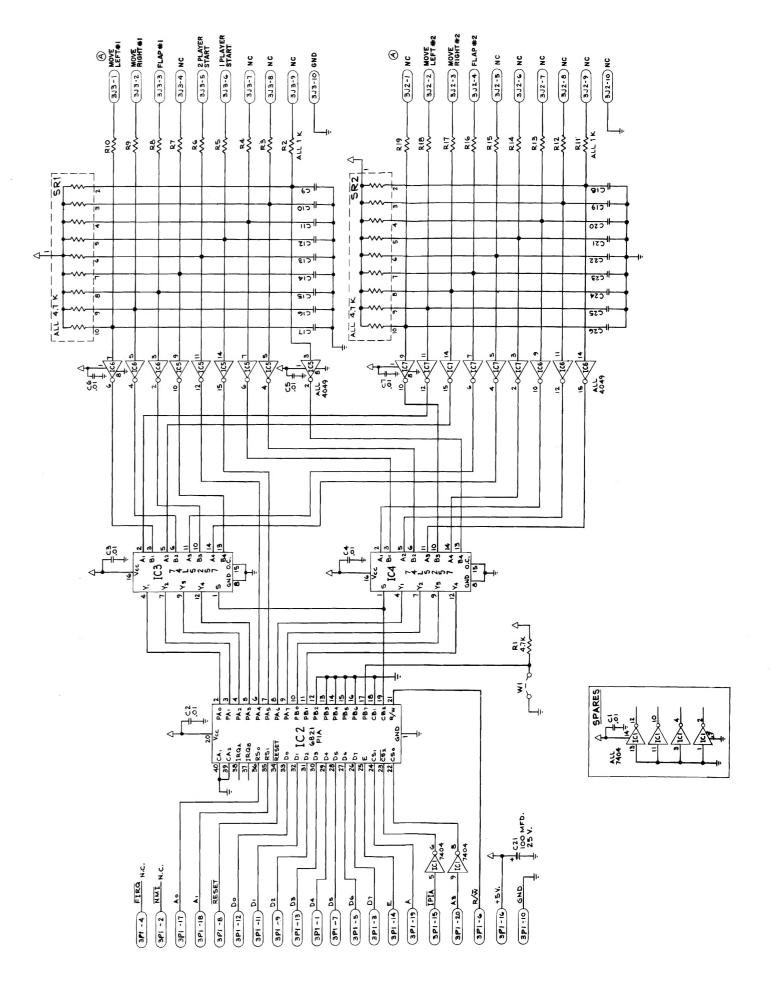
| | Α | В | С | D | E | F | G | Н | I | J | К | L | М | N O | P | Q | R | | |
|---|--|--------------|---------------------------------------|------------------|---------------|------------|---|---|--------------------------|-----------|---------|------------------|---------------|---------------------------------------|----------|---------|---------|-------|---|
| 0. | | | | 1000 | 1J4 | 00000000 | 040 | 0 | 100 | 1J5 | 0 20 | | | | | | | 8 | |
| R1 R2 R3 R3 R3 R3 R3 R3 R3 R3 R3 R3 R3 R3 R3 | (3) Las | | 1C | CA D | | 26 | 16 | (T) | , li | (29) | IK | | ım | 1N 10 | P C25 | | IR C21 | 1 |) |
| 218 W W W W W W W W W W W W W W W W W W W | R20 D4 D4 D5 P21 D5 P22 P23 P23 P24 P25 P2 | 2B | R42 R42 R78 CIS 2C | 2D | | 69 | | SH 2H | | 2J | 2 K | 2L | | 2N 20 20 | 2P | 2Q (44) | 2R | 2 | |
| 173 | | 38 | 3C | R33Z | | ESS - RESS | 36 | 3H | | (3) 3) | 3K | 31 | 3м | 3N 30 | 3P | 3Q | 3R (62) | 3 | |
| 40 mo n* -0 | 4A R34 | -(47)- 4B | 40 | - R35 - C49 - 4D | 4E | 4F | -C52- | -C53- | 41 | 4J | 4K (8) | - (588) - (4L | - C59 - 4M | - R39 | | R-8731 | | 4 (8) | NOTE: LABEL LOCATION IS APPROXIMATE. |
| - Sw1 | 5A | 840 - R40 | 5C | 5D | 5E | 5F | 5 G | 5H | 5I | 53 | 5K | | | • • • • • • • • • • • • • • • • • • • | → | | | 5 | |
| \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ | C8 I | | -C92 | | (274) (6E) | 6F | -C76- | (17) (6) (6) | 61 | (C19) | 6K (38) | | E | J B | 2 B: | 3 | | 6 | |
| | L 3 G 2 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | (C) | | 7 F 888 | 7G 00 10 10 10 10 10 10 1 | () () () () () () () () () () | C86 R72 C69 CR1 | 73 | 7K | | | | | - | 0 | 7 | |





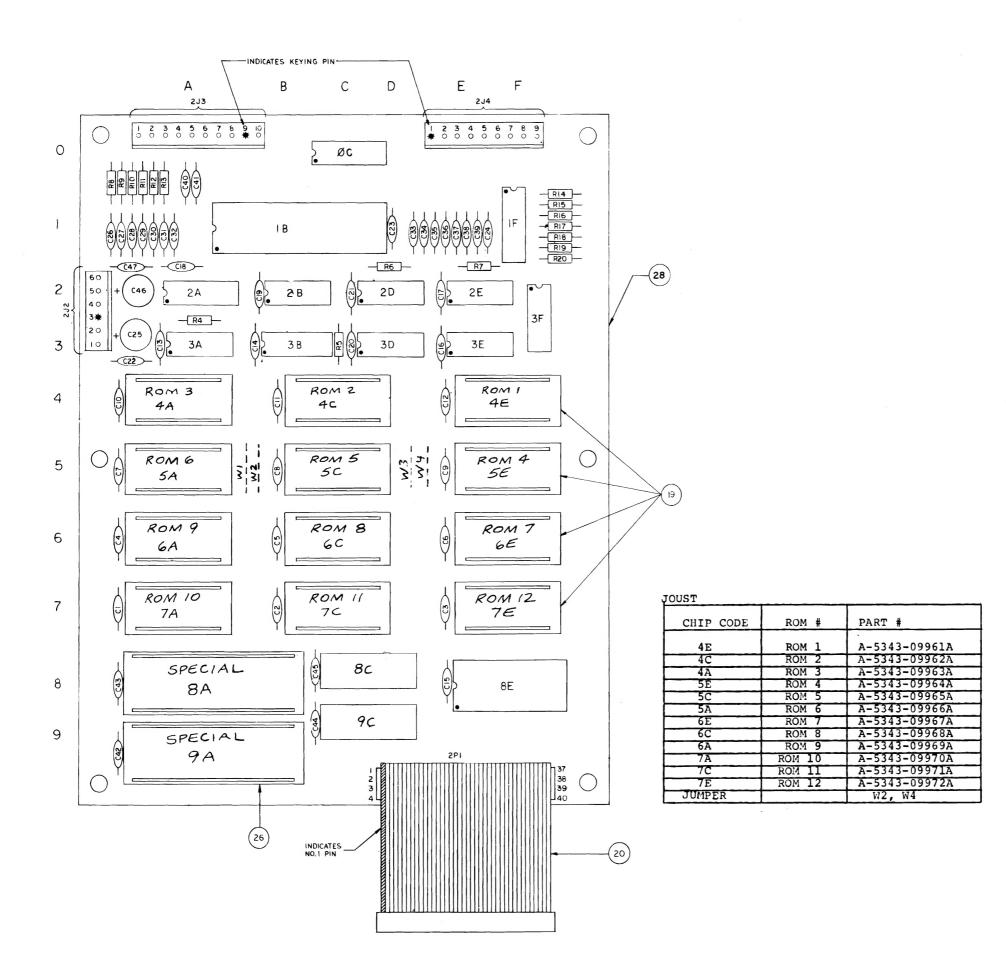
| _ | | | | | | | | | | | | | | | |
|------------------|---------------------|-------------------|----------|---------------------------|----------------------|----------------------------------|-------------------------------|----------------|----------------|----------------|---|--------------------------|--------------------------|----------------------------|--------------------------|
| | NO. | - | - | м | - | 2 | 4 | ã | - | - | 8 | - | 7 | - | 7 |
| BILL OF MATERIAL | DESCRIPTION | BARE P.C. BOARD | 6821 PIA | 4049 CMOS HEX INVERTOR | 7404 HEX INVERTER | 7415257 QUAD DATA MULTIPLEXER | 4.1K OHM 9 RES. 10 PIN SIP | RESISTOR, C.F. | RESISTOR, C.F. | RESISTOR, C.F. | CAPACITOR, CERAMIC DISC. 410 PFD. 50 V. X7R ±20% | CAPACITOR, ELECT. RADIAL | CAPACITOR, CERAMIC DISC, | 20 PIN RIBBON CABLE ASS'Y. | 10 PIN HEADER 09-65-1101 |
| | PART DESIGNATION | | 16.2 | 105, 106, 107 | ICI | 103,104 | SRI, SR2 | R2 THRU RI9 | 78 | 3 | C9 THRU C26 | 6.0 | CI THRU C7 | ď | 312, 313 |
| | PART NO. | 5772- 09680-00 | 5430- | 5310- | 5280- | 5281- | 5019- | 5010- | 5010- | 5010 - | 5043- | 5040- | 5043 - | 5195- 09540-00 | 5791- |
| | ITEM NO. | - | 7 | ĸ | 4 | Ŋ | ૭ | 7 | 6 0 | r | ō | = | 12 | 5. | 4 |



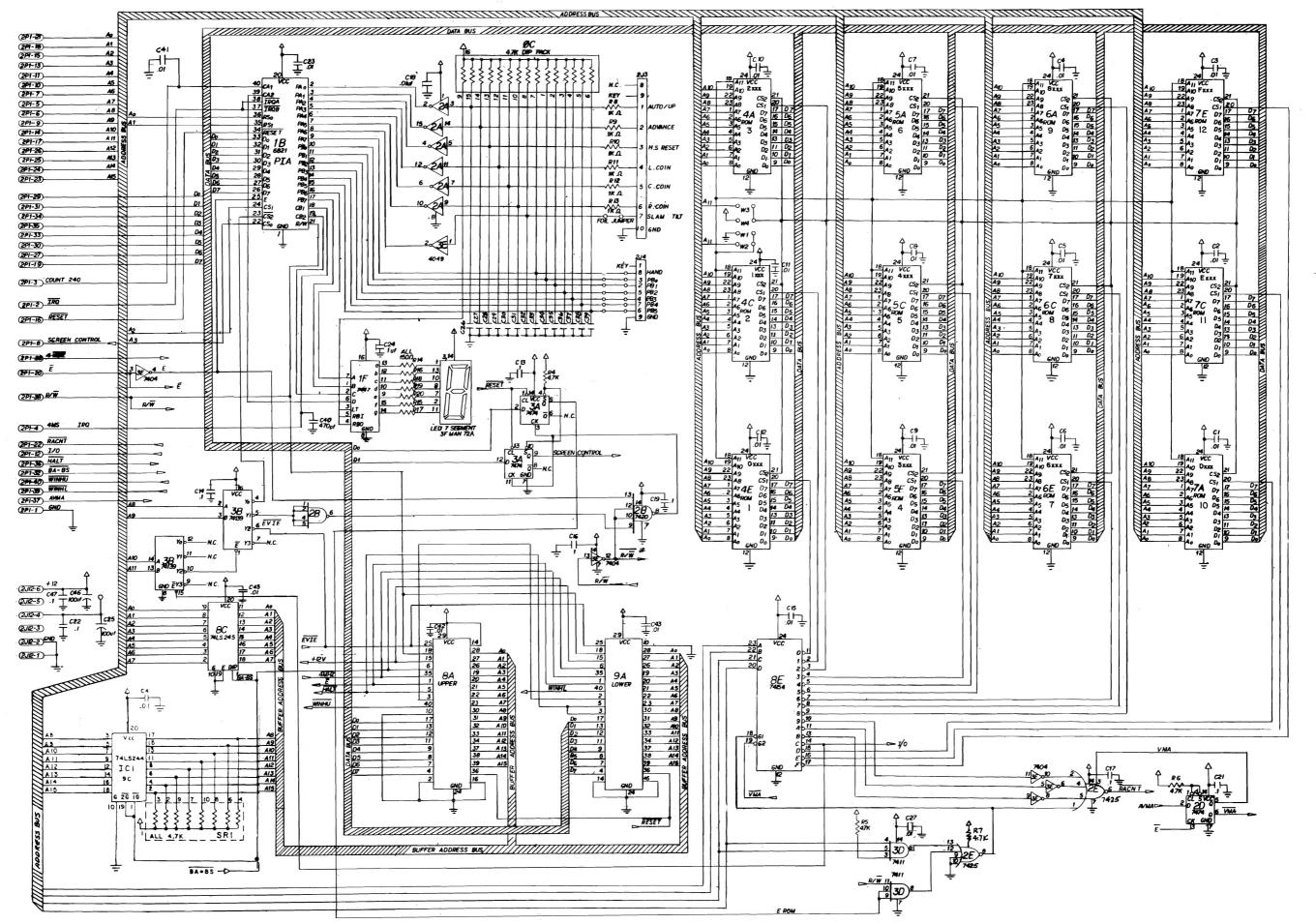


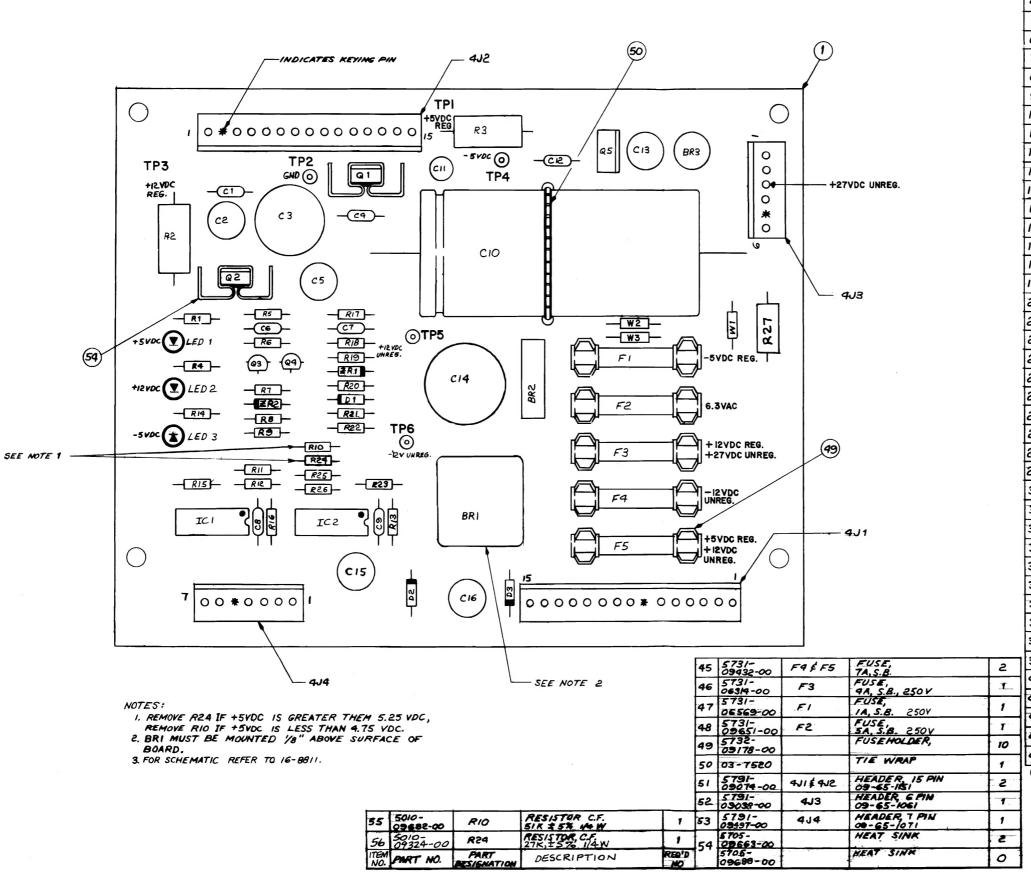
C-8783 Interface Board Assembly and Logic Diagram

5

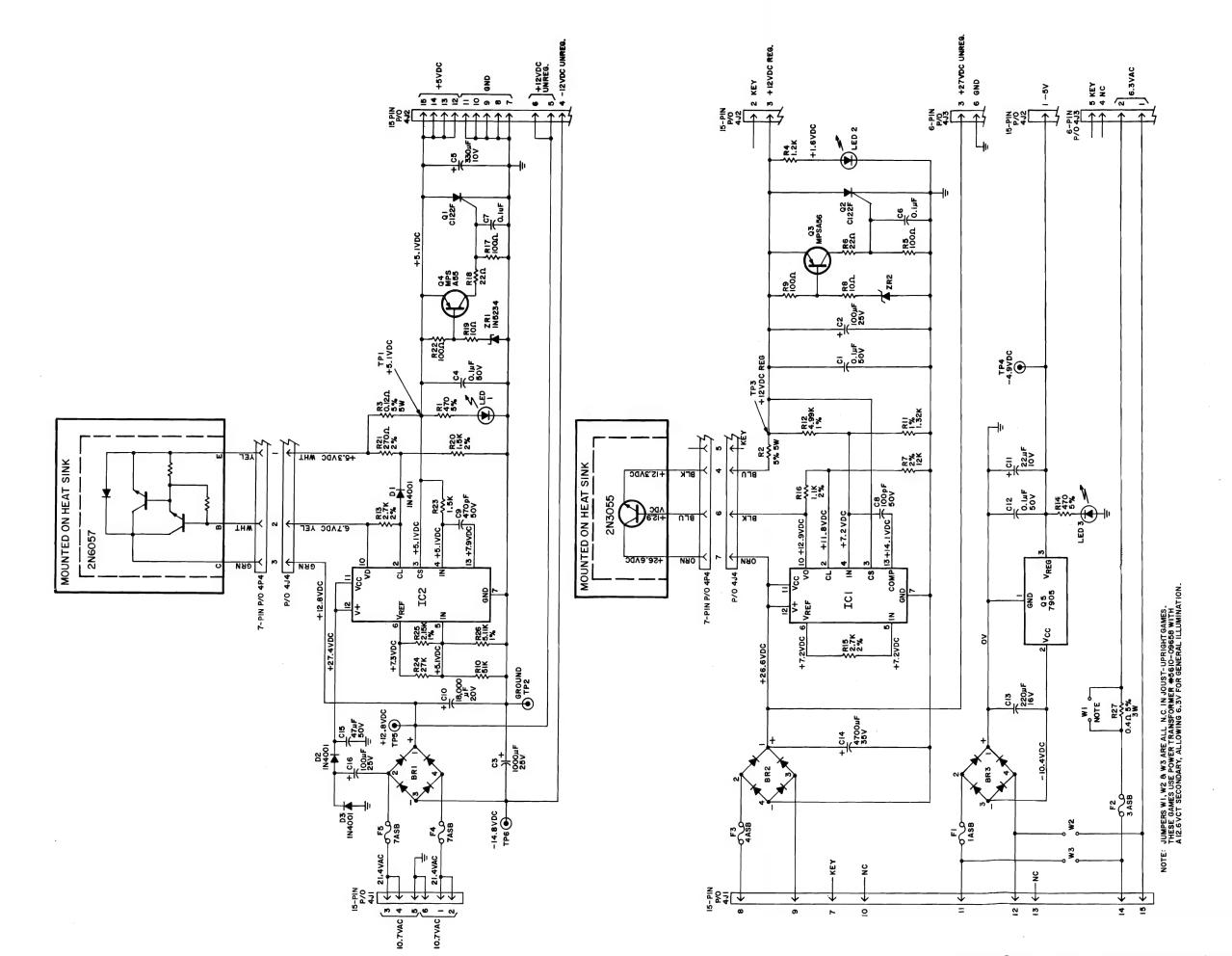


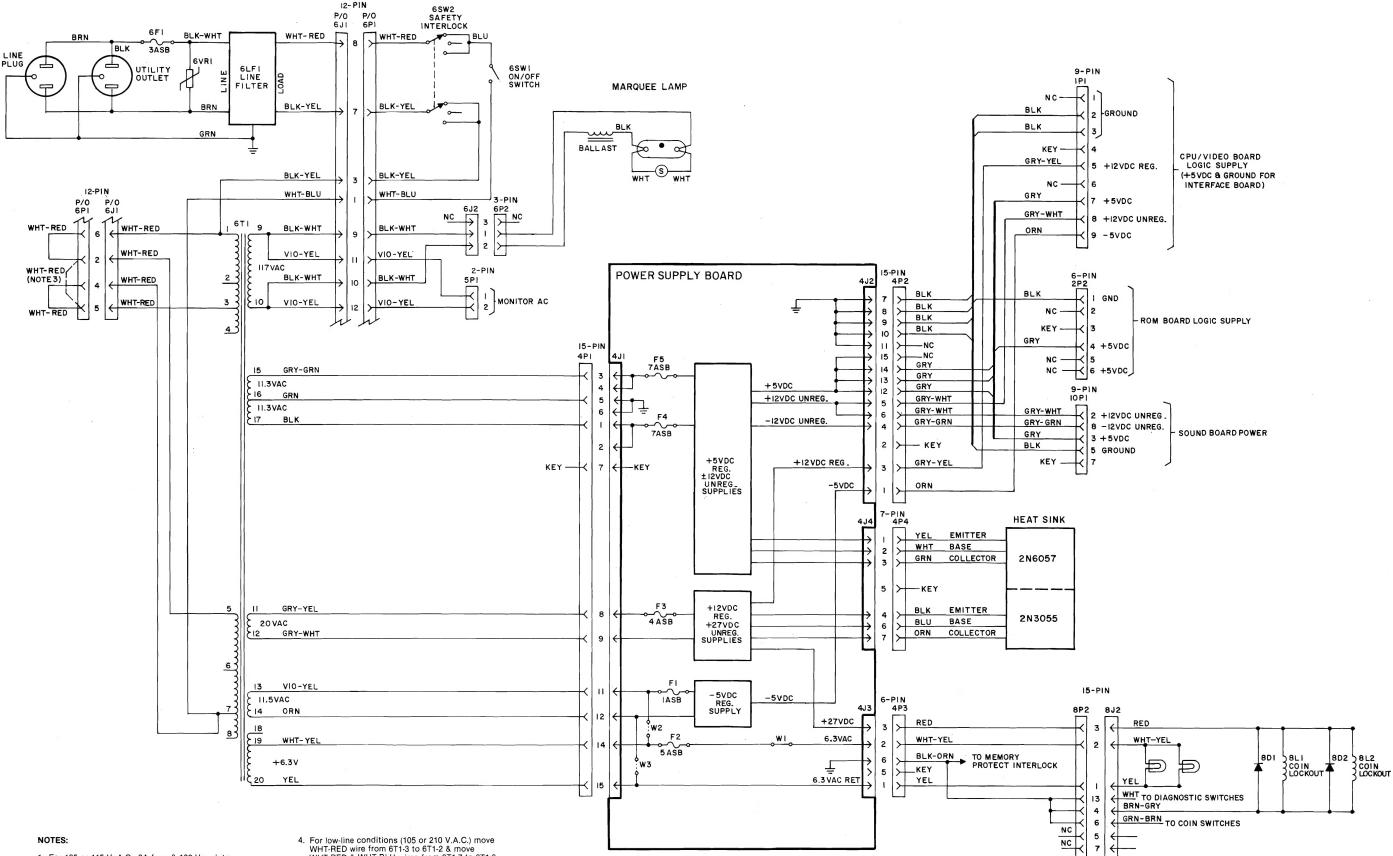
| | В | ILL OF | MATERIALS | |
|-------------|--------------------------|-----------------------------|--|--------------|
| ITEM NO. | PART NO. | PART DESIGNATION | DESCRIPTION | REQ'D NO. |
| 1 | 5771 - 09840-00 | | BARE P.C. BOARD | ! |
| 2 | 5280- 09407-00 | 1F | 7447BCD TO 7SEG LED DISPLAY | Î |
| 3 | 5280 - 09478 - 00 | 2D,3A | 7474 DUAL-D TYPE FLIP-FLOP | 2 |
| 4 | 5281 - 09246-00 | 38 | 74LSI39 DUAL 2 TO 4 LINE DECODER | ı |
| 5 | 5280- 09530-00 | 2 B | 7420 DUAL 4-INPUT NAND | ١ |
| 6 | 5280 - 09475 - 00 | 3D | 7411 TRIPLE 3 INPUT AND | ١. |
| 7 | 5280 - 09013 - 00 | 3E | 7404 HEX INVERTERS | 1 |
| 8 | 5280- 09551-00 | 2E | DUAL 4 INPUT 7425 NOR GATE WITH STROBE | 1 " |
| 9 | 5280 - 09010 - 00 | 8E | 74154 4 TO 16 LINE DEC. / DEMULT. | 1 |
| 10 | 5430 · 08972 · 00 | IB | MC 6821 PIA | ı |
| 11 | 5019 - 09239 -00 | ØC | 4.7K 15 RES 16 PIN DIP PACK | 1 |
| 12 | 5010 - 09187 - 00 | RI4 THRU R20 | RESISTOR C.F. 150 OHM 5% 1/4 W | 7 |
| 13 | 5010 - 08991-00 | R4 THRU R7 | RESISTOR C.F. 4.7K OHM 5% 1/4W | 4 |
| 14 | 5671 - 09411 - 00 | 3F | MAN 72A 7SEG LED DISPLAY | 1 |
| . 15 | 5043 - 08980-00 | C1-C21, C23, C24, C42-45 | CAP, CERAMIC .OI MFD 50V +80-20% | 27 |
| 16 | 5040 - 09421-00 | C25,C46 | CAP ELEC 100 MFD. 25V RAD + 50% -10% | 2 |
| 17 | 5043 - 08996 -00 | C22,C47 | CAP CERAMIC .1 MFD. 50V ± 20% | 2 |
| 18 | 5043 - 09065 -00 | C26 THRU C41 | CAP CERAMIC 470 PFD, 50V AXIAL +/ -20% | 16 |
| 19 | 5700 - 09004 - 00 | | 24-PIN I.C. SOCKET | 12 |
| 20 | 5795 - 09611-00 | 2P1 | 40 PIN RIBBON CABLE ASS'Y 5" | 1 |
| 21 | 5791 - 09038 - 00 | 2J ² 2 | HEADER, 6 PIN, 09-65-1061 | 1 |
| 22 | 5791 - 09444 -00 | 2J3 | IO PIN MALE CONN 09-65-1101 | 1 |
| 23 | 5791 - 09027-00 | 2J4 | 9 PIN CONN 09-65-1091 | 1 |
| 24 | 5310 - 08 97 5 | 2A | 4049 INVERTING HEX BUF. | 1 |
| 25 | 5010 - 09358 - 00 | R8 THRU RI3 | RESISTOR C.F. IK OHM 5% 1/4 W | 6 |
| 26 | 5700- 08985-00 | - | 40 -PIN LC. SOCKET | 2 |
| | 1 | | | |
| 28 | D-9192 | | ROM/PIA BD. SUB-ASSEMBLY | 1 |
| 29 | SEE CHART | 4A THRU7E SEE CHART | GAME ROM ASSEMBLY | AS REQ'D |
| 30 | 5010- 09534-00 | WI THRU W4 SEE CHART | RESISTOR C.F. | AS REQ'D |
| 31 | 5410- 09866-00 | 8A, 9A | FULL CUSTOM I.C. | 2 |
| 32 | 5281- 09308-00 | 8C | I.C., 74LS245 OCTAL BUS/LINE DR/LINE RCVR | 1 |





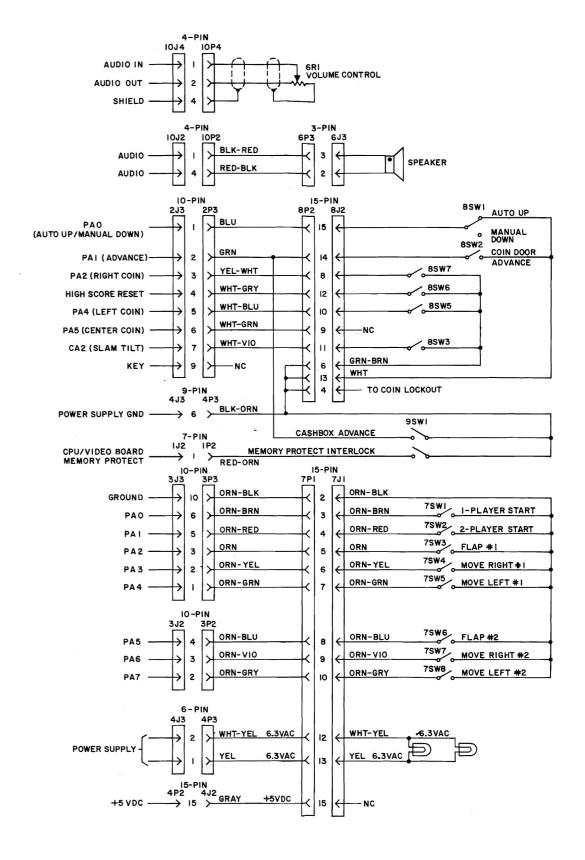
| | BII | L OF N | MATERIAL | |
|------------|---------------------------------|---------------------|--|----------|
| NO. | PART NO. | PART DESIGNATION | DESCRIPTION | REQ' |
| 1 | 5773 - 0967 9 -00 | | BARE P.C. BOARD | 1 |
| 2 | 5010- 0 9085-0 0 | R23 | RESISTOR, | 1 |
| 2 | 5010- 09541-00 | R13, R15 | RESISTOR, 2.7K 2%, 1/4W | 2 |
| a | 5010- | R2I | RESISTOR. | 1 |
| 5 | 5010 | R20 | ATOR 2%, 1/4 W | 1 |
| 6 | 09428-00 5010- | RI6 | RESISTOR, | 1 |
| | 0 9509-00 5010- | R7 | I.IK 2%; V4W RESISTOR, | 1 |
| _ | 0 9 510-00 5010 - | | IZK 2%, I/4 W | 1 |
| | 09314 -00 5010 - | R4 | I.ZK 5%, I/4 W | <u> </u> |
| 9 1 | 09416-00 | RI, RI4 | 470A 5%, V4W | 2 |
| 10 | 5013 - 0 95 42 -0 0 | ·RII | RESISTOR, 7.32 K 1%, 1/4 W | f |
| 11 | 5013- 0 34 27-00 | RIZ | RESISTOR, 4.99 K 1%, 1/4 W | 1 |
| 12 | 5013° 0 5426 -00 | R25 | RESISTOR, 2.15K 1%, 1/4 W | 1 |
| 13 | 50/2 - 09429-00 | RS | RESISTOR, | 1 |
| 14 | 5012- 09512-00 | R2 | RESISTOR, | 1 |
| 15 | 5012 - | R27 | RESISTOR, 0.4.1. 5%,3W | 1 |
| IZ | 09 <i>031</i> -00 50/3- | R26 | RESISTOR, , | 1 |
| 17 | 09665 -00 5010 - | | RESISTOR, C.R. | 2 |
| | 0 9434-00 5010- | RG, RIB | RESISTOR, C.F. | _ |
| 10 | 09036-00 5010- | R5,R9, R17¢R22 | 100 A ± 5% 1/4 W RESISTOR, C.F. | 4 |
| 19 | 09039-00 | R8, R19 | 10.2 ± 5%, 1/4W | 2 |
| 20 | 5 010 09534-00 | WI | RESISTOR, | / |
| 21 | 5043- 08996-00 | C6,C7 | CAPACITOR, O.I.M.F. CERAMIC +80% -20% SOV | 2 |
| 22 | 5040- 09421-00 | C2,CIG | CAPACITOR, 100 MFD, 25 V RADIAL +50% -10% | 2 |
| 23 | 5040 - 09422-00 | C15 | CAPACITOR 47 NFD.504 RADIAL +50% -10% | 1 |
| 24 | 5040 - 09420 - 00 | C3 | CAPACITOR, 1000 MFD. 25 V RADIAL +75% -10% | 1 |
| 25 | 5040- | CIO | CAPACITOR, 18,000 MFD 20V AXIAL + 75% -10% | 1 |
| 20 | 09419-00 5040- | <i>c</i> 5 | CAPACITOR, 330 MFD 10V | 1 |
| 27 | 0 9423-00 5040 - | C14 | RADIAL +50% -10% CAPACITOR 4700MFD 35V RADIAL +50% - 10% | 1 |
| | 09504-00 5043- | | | <u> </u> |
| 28 | 09446-00 5043- | CI, C4 ¢ CIZ | CAPACITOR .IMFD 50V AXIAL 250 - 20 + 80% CAPACITOR 470 PFD 50V | 3 |
| | 5043- 05065-00 5043- | <i>C9</i> | AXIAL XTR ± 10% CAPACITOR 100 PFD 50Y | 1 |
| 30 | 09492-00 | CB | AXIAL SZL ± 5% | 1 |
| 31 | 5040- 09506-00 | C/3 | CAPACITOR 220MFD IEV RADIAL +50% -10% | 1 |
| 35 | 5040- 09493-00 | CII | CAPACITOR 22MFD 10 V RADIAL +50% -10% | 1 |
| 33 | 5070- 06258-00 | D1,D2 £ 03 | DIODE, IN4001 | 3 |
| 34 | 5075- 09406-00 | ZRI | ZENER, IN5234 ± 5% (6.24) | 1 |
| 35 | 5075- 09662-00 | ZR2 | ZENER IN5244 ±5% (14V) | 1 |
| 36 | 5190- | Q3,Q4 | TRANSISTOR, | 2 |
| 37 | 09430-00 5/30- | 01,02 | MPS ASS SCR 8 AMP, 100 V | 2 |
| 38 | 09661-00 5250- 09515-00 | Q5 | VOLTAGE REGULATOR, | , |
| | 09515-00 5460- | | 7905 YOLTAGE REGULATOR, | - |
| 39 | 09424-00 5100- | TCI, TC2 | 723 BRIDGE RECTIFIER | 2 |
| 40 | 5100- | BRI | 35 AMP, 200V BRIDGE RECTIFIER, | 1 |
| 41 | 09513-00 | BRE | 4.0A, 50V | 1 |
| 42 | 5100- 0 9514 -00 | 8R3 | BRIDGE RECTIFIER, 1.DA, 50 V | 7 |
| 43 | 5671- 0 30/9-0 0 | LEOT, LEOZLED 3 | LED, RED | 3 |
| 44 | 5824 - 09248-00 | TP1- TP6 | TERMINAL # 1502-1 (TEST POINT) | 4 |
| | | | | |
| ▲ | | | | |
| (A) | | | | |
| (A) | | | | |

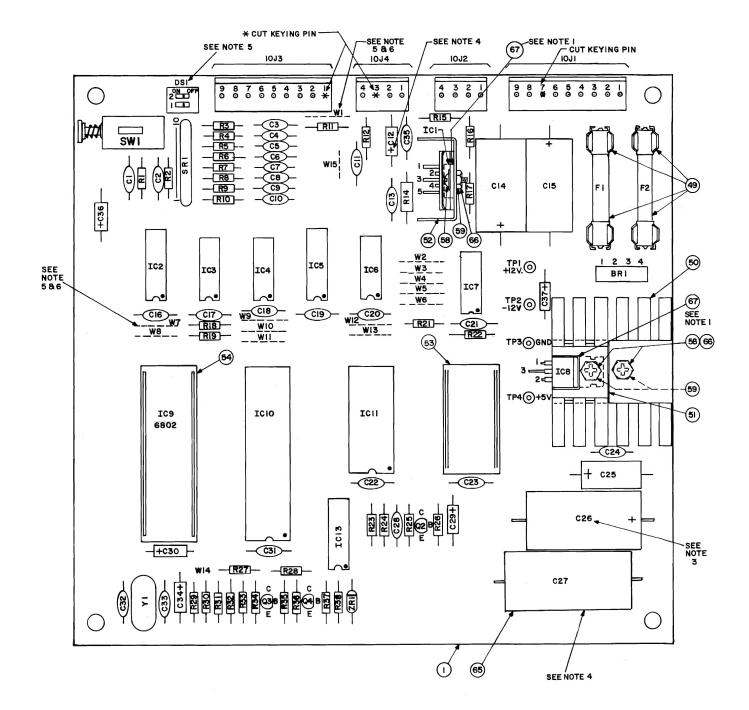




- 1. For 105 or 115 V. A.C., 3A fuse & 130 V varistor 5017-09044 are used.
- 2. For 210 or 235 V.A.C., 1A fuse & 275V varistor
- Jumper wires on 6PI shown with solid lines are connected for 117 V.A.C. operation. Only the one shown with a dashed line is connected for 220 V.A.C. operation.
- 4. For low-line conditions (105 or 210 V.A.C.) move WHT-RED wire from 6T1-3 to 6T1-2 & move WHT-RED & WHT-BLU wires from 6T1-7 to 6T1-6
- For high line conditions (135 or 240 VAC) move WHT-RED wire from 6T1-3 to 6T1-4 and move WHT-RED & WHT-BLU wires from 6T1-7 to 6T1-8

CABINET WIRING





BILL OF MATERIAL

| | | DILL (| OF MATERIAL | |
|-------------|----------------|-----------------------|---|--------|
| ITEM NO. | PART NO. | PART DESIGNATION | DESCRIPTION | REQ'D. |
| | 01 2 01 146 6 | | DADE D.C. DOADD DEV.E | |
| 1 | 01-2 01-146-6 | 101 | BARE P.C. BOARD REV F | 1 |
| 2 | 5370-09156-00 | IC1 | TDA 2002 V AUDIO AMPLIFIER | 1 |
| 3 | 5280-09012-00 | IC2 | 7442 BCD-DEC DECODER | 1 |
| 4 | 5280-09073-00 | 1C3 | 7400 QUAD 2 INPUT NAND | 1 |
| 5 | 5280-08973 | IC4 | 7408 QUAD 2 INP. AND GATE | 1 |
| 6 | 5310-09153-00 | IC5 | 4050 BUFFER | 1 |
| 7 | 5310-09154-00 | 106 | 4068 8 INPUT NAND GATE | i |
| 8 | 5310-08971-00 | 107 | 4069 HEX INVERTER | i |
| 9 | | 108 | 7805 5 VOLT REG. W/TO 220 CASE | i |
| | 5250-09157-00 | | | |
| 10 | 5430-08972-00 | IC10 | 6821 P.I.A. | 1 |
| 11 | 5340-09003-00 | IC11 | 6810 RAM | 1 |
| 12 | 5371-09152-00 | IC13 | 1408 D/A CONVERTER | 1 |
| 13 | 5160-08938-00 | Q2, Q3, Q4 . | 2N4401 NPN TRANSISTOR | 3 |
| 14 | | | | |
| 15 | 5075-09018-00 | ZR1 | IN5996A 6.8V ZENER DIODE | 1 |
| 16 | | | | |
| 17 | 5100-09357-00) | DD1 | MDA 200/3N253 | 1 |
| ., | 5100-09158-00) | BR1 | BRIDGE RECTIFIER | Ö |
| 10 | | Y1 | | 1 |
| 18 | 5520-09020-00 | | 3.58 MHz CRYSTAL | |
| 19 | 5010-08991-00 | R1,R18,R19,R21,R22, | RESISTOR, FC, 4.7K OHM, 5% 1/4 WATT | 9 |
| | | R27,R30,R31, R32 | | |
| 20 | 5010-09036-00 | R2 thru R10 | RESISTOR, FC, 100 OHM, 5% 1/4W | 9 |
| 21 | 5010-09358-00 | R12,R15,R28,R36,R38 | RESISTOR, FC, 1K OHM, 5% 1/4W | 5 |
| 22 | 5010-09181-00 | R14 | RESISTOR, FC, 1 OHM, 10% 1/2 WATT RESISTOR, FC, 2.2 OHM, 5% 1/4 WATT | 1 |
| 23 | 5010-09161-00 | R16 | RESISTOR, FC, 2.2 OHM, 5% 1/4 WATT | 1 |
| 24 | 5010-09361-00 | R17 | RESISTOR, FC, 220 OHM, 5% 1/2 WATT | 1 |
| 25 | | | , | |
| 26 | 5010-08983-00 | R23, R24, R26 | RESISTOR FO 3 3K OHM 50 1/1 WATT | 3 |
| 27 | | R25 | RESISTOR, FC, 3.3K OHM, 5% 1/4 WATT RESISTOR, FC, 3.3M OHM, 5% 1/4 WATT | 1 |
| | 5010-09179-00 | | RESISTOR, FC, 3.3M OHM, 5% 1/4 WATT | |
| 28 | 5010-09035-00 | R29 | RESISTOR, FC, 4/K OHM, 5% 1/4 WATT | 1 |
| 29 | 5010-09034-00 | R33, R35, R37 | RESISTOR, FC, 47K OHM, 5% 1/4 WATT RESISTOR, FC, 10K OHM, 5% 1/4 WATT RESISTOR, FC, 10 OHM, 5% 1/4 WATT | 3 |
| 30 | 5010-09039-00 | R34 | RESISTOR, FC, 10 OHM, 5% 1/4 WATT | 1 |
| 31 | 5043-08980-00 | C1, C16 thru C23, C31 | CAPACITOR, CERUT MFD. 50V. +80%, -20% | 10 |
| 32 | 5043-09065-00 | C2 thru C10 | CAPACITOR, CER. 470 PFD. 50V. +-20% | 9 |
| 33 | 5043-09345-00 | C11 | CAPACITOR, CER001 MFD. +-20% 100V. | 1 |
| 34 | 5040-09365-00 | C12, C30, C36 | CAPACITOR, ELECT. 1 MFD. 63V10 +50% | 3 |
| 35 | 5043-08996-00 | C13, C24, C35 | CAPACITOR, CER1 MFD. 50V. +-20% | 3 |
| 36 | 5040-09165-00 | C14 | CAPACITOR, ELECT. 1,000 MFD. 16V. +-20% | í |
| 37 | 5040-09164-00 | C15 | CAPACITOR, ELECT. 470 MFD. 10V. +-20% | i |
| 38 | | | | 1 |
| | 5040-08986-00 | C25 | CAPACITOR, ELECT. 100 MFD. 10V. +-20% | 1 |
| 39 | 5040-08893-00 | C26 | CAPACITOR, ELECT. 1,000 MFD. 25V. +-20% | |
| 40 | 5040-09376-00 | C27 | CAPACITOR, ELECT. 4700 MFD. 16V. +-20% | 1 |
| 41 | 5043-09180-00 | C28 | CAPACITOR, CER. 47 PFD. 1K V. +-20% | 1 |
| 42 | 5040-09343-00) | C29 | CAPACITOR, ELECT. 10 MFD. 20V | 1 |
| 43 | 5043-09169-00 | C32, C33 | CAPACITOR, CER. DISC, 27 PFD. 1KV. +-10% | 2 |
| 44 | 5041-09163-00 | C34 | CAPACITOR, TANTALUM 2.2 MFD. 15V. +-20% | 1 |
| 45 | 5041-09031-00 | C37 | CAPACITOR, TANTALUM 1 MFD. 25V. +-20% | 1 |
| 46 | 5641-09658-00) | SW1 | MOMENTARY SWITCH SPDT | 1 |
| 47 | 5645-09330-00 | DS1 | 2 STD, DIP SWITCH | i |
| 48 | 5731-06314-00 | F1, F2 | 4 AMP SLOW BLOW FUSE | 2 |
| | | 11912 | FUSEHOLDER | 4 |
| 49 | 5732-09178-00 | | | |
| 50 | 5705-09172-00 | | HEAT SINK THERMALLOY #6072B | 1 |
| 51 | 5705-09173-00 | | HEAT SINK THERMALLOY #6071B | 1 |
| 52 | 5705-09199-00 | | HEAT SINK THERMALLOY #6030 | 1 |
| 53 | 5700-09004-00 | | 24 PIN SOCKET | 1 |
| 54 | 5700-08985-00 | | 40 PIN SOCKET | 1 |
| 55 | 5791-09027-00 | 10J1, 10J3 | 9 PIN MALE CONNECTOR 09-65-1091 | 2 |
| 56 | 5791-09028-00 | 10J2, 10J4 | 4 PIN MALE CONNECTOR 09-65-1041 | 2 |
| 57 | | , | | - |
| 58 | 4006-01003-06 | | 6-32×3/8" P-PH-S | 3 |
| | | | | |
| 59 | 4406-01117-00 | | 6-32 HEX NUT | 3 |
| 60 | 5010-09534-00 | | O OHM RESISTOR | A/R |
| 61 | 5824-09248-00 | TP1 THR TP4 | TERMINAL #1502-1 | 4 |
| 62 | 5010-09363-00 | R11 | RESISTOR, FC, 5.6K OHM 5% 1/4 WATT | 1 |
| 63 | | | | |
| 64 | 5019-09362-00 | SR1 | RESISTOR, 4.7K OHM 10 PIN SIP | 1 |
| 65 | 03-7520-1 | | TIE WRAP | i |
| 66 | 4703-00007-00 | | #6 EXT. LOCKWASHER | 3 |
| 67 | 20-9229 | | THERMAL COMPOUND | .01 |
| 07 | 20-7627 | | THE WARE COME COND | •01 |

- $\frac{\text{NOTES:}}{\text{1.}}$ Use thermal compound between IC1 and IC8, and HEAT SINKS.
- 2. CAUTION: AVOID STATIC DISCHARGE DAMAGE TO MOS LOGIC.
- 3. SYMBOLS SHOWN ON COMPONENTS ARE FOR REFERENCE ONLY. DO NOT SCREEN OR STAMP.
- 4. OBSERVE INDEX MARK OF ALL INTEGRATED CIRCUITS; DIODES D1, D2, AND ZR1; CAPACITORS C12, C14, C15, C25, C26, C27; CONNECTORS 10J1, 10J2, 10J4, 10J3, 10J5; POSITION OF TRANSISTORS Q1, Q2, Q3, Q4.

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W3)
W4)
W5) IN
W10)
                      W11)
W12)
W13)
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